

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A digital device ~~for inputting data from the other specific digital device to a physical plug and outputting data from a physical plug to the other specific digital device by using a channel of a bus interface, which~~ configured with controlling data input-output by connecting physical plugs and channels of a bus interface of which channel number is smaller than the physical plugs, comprising:

~~configuration information including connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug~~ channel priority information indicating the priority given to respective channels corresponding to one of the plugs; and

~~channel selecting means selecting a channel with the highest priority among channels of a bus interface connected with the specific physical plug by referring to the configuration information~~ unit operable to select a channel from among the channels according to the order of the channel priority.

2. (Currently Amended) A The digital device according to claim 1, ~~which~~ further comprising:

the configuration information ~~further~~ including plug priority information of physical plugs judged from the aspect of each channel of a bus interface given as priority information to respective plugs corresponding to one of the channels; and

~~channel switching means, in case of the competition for the channels of the bus interface, switching the channel to a physical plug with the highest priority among physical plugs in competition by referring to the configuration information~~ unit operable to switch the channel to a plug of which the priority of the priority information is highest, in case of the competition for the channel.

3. (Withdrawn) A digital device for controlling by a physical plug to output data from a physical plug to the other specific digital device by using a channel of a bus interface, wherein, in case of outputting data having the same type of format from a plural physical plug, the data output having the same type of format is to be controlled by a logical plug.

4. (Currently Amended) A The digital device according to claim 1, wherein the data is synchronous stream one.

5. (Currently Amended) A The digital device according to claim 1, wherein the bus interface is compliant with the standard of IEEE1394.

6. (Currently Amended) A data input-output control method of a digital device for inputting data from ~~the other~~ a specific digital device to a physical plug and outputting data from

a physical plug to the ~~other~~ specific digital device by using a channel of a bus interface, which comprising a step of:

registering as configuration information at least connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

selecting a channel with the highest priority among channels of a bus interface connected with a specific physical plug by referring to the configuration information.

7. (Currently Amended) A The data input-output control method of a digital device according to claim 6, which comprising a further ~~step~~ steps of:

registering as configuration information plug priority information of physical plugs ~~judged from the aspect of each channel of a bus interface~~ given as priority information to respective plugs corresponding to one of the channels; and

in case of the competition for the ~~channels of a bus interface~~ channel, switching the channel to a physical plug ~~with the highest priority among the physical plugs in competition by referring to the configuration information~~ of which the priority of the priority information is highest.

8. (Withdrawn) A data input-output control method of a digital device for controlling by a physical plug to output the data from a physical plug to the other specific digital device by using a channel of a bus interface, wherein, in case of outputting data having the same type of format from a plural physical plug, the data output having the same type of format is to be controlled by a logical plug.

9. (Currently Amended) Configuration information for implementing a data input-output control function of a digital device for inputting data from ~~the other~~ a specific digital device to a physical plug and outputting data from a physical plug to the ~~other~~ specific digital device by using a channel of a bus interface, ~~which~~ comprising at least connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug.

10. (Currently Amended) Configuration information according to claim 9, ~~which~~ further comprising plug priority given as priority information of physical to respective plugs judged from the aspect of each channel of a bus interface corresponding to one of the channels, wherein
in case of the competition for the channel, the channel is switched to a plug of which the priority of the priority information is highest.

11. (Currently Amended) A data input-output control system for controlling to input and output data between a specific digital device and ~~the other~~ another specific digital device connected through a bus interface, ~~which~~ comprising:

configuration information including connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

channel selecting means selecting a channel with the highest priority among channels of a bus interface connected with the specific physical plug by referring to the configuration information.

12. (Currently Amended) A The data input-output control system according to claim 11, which further comprising:

the configuration information including plug priority ~~information of physical plugs~~
~~judged from the aspect of each channel of a bus interface~~ given as priority information to
respective plugs corresponding to one of the channels; and

~~channel switching means switching, in case of the competition for the channels of a bus~~
~~interface, the channel to a physical plug having the highest priority among physical plugs in~~
~~competition by referring to the configuration information~~ unit operable to switch the channel to a
plug of which the priority of the priority information is highest, in case of the competition for the
channel.

13. (Currently Amended) A The digital device according to claim 2, wherein the data is synchronous stream one.

14. (Withdrawn) A digital device according to claim 3, wherein the data is synchronous stream one.

15. (Currently Amended) A The digital device according to claim 2, wherein the bus interface is compliant with the standard of IEEE1394.

16. (Withdrawn) A digital device according to claim 3, wherein the bus interface is compliant with the standard of IEEE1394.